

**MISSILE CONTROL OFFICER TRAINER, DEVICE 15C9A****TRAINING CATEGORY:**

RADAR (Fire Control)

**ORIGINATING AGENCY:**

DCNO/AIR

**SECURITY CLASSIFICATION:**

Device 15C9A is Confidential.

**INTENDED USE:**

The IOS will be used by an instructor to control, monitor and arrange training exercises on the F-14A MCOT.

**PURPOSE:**

The new Instructor/Operator Station (IOS) combines the functions of the existing 15C9A instructor console and repeater panels into a five (5) bay station.

**FUNCTIONAL DESCRIPTION:**

Device 15C9A is a trainer for Radar Intercept Officers (RIO) of the F-14A aircraft.

The IOS provides trainer control during the Self-Test, Exercise and Formulation modes. It also provides a partial control (threats and weapons systems) of the trainer when the trainer is operating in the Mission Mode, i.e. linked with the Operational Flight Trainer (Device 2F95) for full, coordinated pilot and RIO training.

The IOS provides the ability to create/control friendly and hostile air targets as well as various types of ground stations. It also allows control of the aircraft functions that are normally controlled by the pilot.

An instructor can view the tactical situation on an Attack Geometry Display. Control of the exercise is provided on several control panels via push-button and by use of a menu driven Interactive Display (IAD) with inputs from the Numerical Data Entry (NDE) keyboard.

## DIRECTORY OF NAVAL TRAINING DEVICES

The IOS also allows monitoring of the displays and switch settings of the trainee RIO in the cockpit. In addition to the various discrete indicators, a repeat of the Detail Data Display (DDD), Tactical Information Display (TID), and Electronic Counter Measure Display (ECMD) are provided for the instructor.

A Vertical Display Indicator (VDI) is also provided. This is located on the last bay, along with a second TID repeat. The last bay is configured to allow a pilot to control the aircraft when a Pilot/RIO team are training together on the 15C9A (not in Mission Mode).

The pilot station is positioned so the tactical situation information shown on the other displays and indicators of the IOS are not visible to the pilot. Basic displays as well as aircraft and weapons control required for the RIO's training mission are provided for the pilot at this station.

The IOS also houses the prime power distribution panel which provides circuit breaker control/protection and distribution to the other units of the trainer.

**PHYSICAL INFORMATION:**

Device 15C9A IOS is a five (5) bay station with three (3) of the bays offset at 30° angles. It is approximately 144" W, 76" L, 69" H and weighs 4,350 lbs.

**POWER REQUIREMENTS:**

115 VAC, 60 Hz, 3-Phase  
Maximum Power: 1.75 KVA

**PUBLICATIONS FURNISHED:**

Technical Manual F14 MCOT 15C9A,  
NAVTRADEV P-3902 MCOT (C).

**PERSONNEL:**

**Instructor:** One (1) Chief or qualified MCOT instructor

**Operator:** Instructor Operated

**Maintenance:** A Simulator Technician or equivalent will be required for eight (8) hours per week for the IOS portion of the 15C9A MCOT.

**INSTALLATION REQUIREMENTS:**

The IOS is installed according to the installation requirements for the MCOT.

**CONTRACT IDENTIFICATION:**

Manufactured by Hughes Aircraft Co., Los Angeles, CA under NAVTRASYSCEN Contract No. N61339-88-C-0064.

**LOCAL STOCK NUMBER:**

6920-LL-C00-2047